

	Search Terms
1	CAPACITOR
2	CONTINUOS
3	PLATINUM
4	PT
5	SMOOTH
6	((PT OR PLATINUM) NEAR8 (CONTINUOS OR SMOOTH) ) AND CAPACITOR)

	Total	USPAT	US-PGPUB	EPO	JPO	Derwent	IBM TDB
1	169717						
2	503						
3	83864						
4	40370						
5	301838						
6	20						

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	Total	USPAT	US-PGPUB	EPO	JPO	Derwent	IBM TDB
1	258210						
2	1014						
3	43644						
4	711413						
5	187580						
6	2						

DOCUMENT-IDENTIFIER: US 6204178 B1

TITLE: Nucleation and deposition of PT films using ultraviolet irradiation

BSPR:

The present invention overcomes the drawbacks of patterning platinum group metals by conventional methods and provides a CVD method which produces a smooth, uniform, continuous film of a platinum group metal which also has good step coverage. The present invention also allows the platinum film to be patterned onto a substrate. The invention includes depositing the platinum metal group in conjunction with ultraviolet light using a CVD process followed by low temperature annealing in order to remove carbon in the platinum group metal.

DEPR:

The invention provides a method of deposition of platinum group metals in the presence of ultraviolet light followed by a low temperature anneal in an oxygen atmosphere. The method creates a platinum group metal film that is both consistently smooth and has good step coverage as shown by the uniform platinum film along the sidewalls of the trench shown in FIG. 3.